

Serial No. 10/796,102
Amdt. dated November 27, 2006
Reply to Office Action of August 25, 2006

Docket No. HI-0193

REMARKS

Claims 1-3, 5-8, and 11-25 are pending. Claims 1 and 5-8 have been amended, claims 4, 9, and 10 have been canceled, and new claims 21-25 have been added to recite additional features of the embodiments disclosed in the specification.

Reconsideration of the application is respectfully requested for the following reasons.

In the Office Action, claims 1, 3, and 4-10 were rejected under 35 USC § 102(e) for being anticipated by the Yu patent publication. This rejection is traversed for the following reasons.

Claim 1 recites front filter installed on a front surface of a panel. The filter includes a touch screen formed from “a plurality of first electrode lines” and “a plurality of second electrode lines crossing the plurality of first electrode lines.” According to one non-limiting embodiment, when incorporated into a display panel, the electrode lines may be applied to perform the dual functions of electromagnetic interference (EMI) prevention and touch-screen operation, e.g., performing a certain function when a user presses a certain location of the crossed first and second electrode lines.¹ The electrode lines are also desirable in certain non-limiting applications because they do not adversely affect picture quality as other structures might. The Yu publication does not disclose a touch screen of this type.

¹ In other embodiments, the electrode lines may be applied to perform only one of these functions or functions different from EMI prevention.

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The Yu publication discloses a touch screen for a liquid crystal display panel. Unlike claim 1, the touch screen is formed from first and second electrode layers 26 (32b) and 27 (32a). See Paragraph [0035] with reference to Figures 4 and 5. The Yu screen does not include first and second electrode lines on respective upper and lower films, where the second electrode lines cross the first electrode lines.

Because the Yu publication does not disclose all the features of claim 1, it is respectfully submitted that the Yu publication does not anticipate this claim or any of its dependent claims.

Claim 2 was rejected under 35 USC § 103(a) for being obvious in view of a Yu-Morrison combination. This rejection is traversed for the following reasons.

Claim 2 depends from claim 1. In order to render claim 2 obvious, the Morrison patent must therefore teach or suggest the features of claim 1 missing from Yu.

The Morrison patent discloses a plasma display panel having a touch screen. However, like Yu, the Morrison touch screen does not teach or suggest the first and second electrode lines of claim 1. It is therefore respectfully submitted that claim 2 is allowable at least by virtue of its dependency from claim 1. Applicants further submit claim 3 is allowable for similar reasons.

Dependent claim 11 recites that the front filter includes “an antireflection coating for preventing an external incident light from being again reflected toward an external.” The Yu publication does not disclose these features. Applicants therefore submit that claim 11 is allowable.

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Claims 12 and 14-20 were rejected under 35 USC § 103(a) for being obvious in view of Yu taken alone. This rejection is traversed for the following reasons.

Claim 12 recites a plasma display apparatus having “a front cabinet for electrically connecting the front filter and the back cover.” In one non-limiting application, connecting the front filter and the back cover via the front cabinet may more effectively prevent incident EMI. This connection may also be considered beneficial in some circumstances for enabling the dual touch-screen EMI prevention functions. The Yu publication does not teach or suggest these features.

As shown in Figure 5, while the Yu panel includes a touch screen, the Yu panel does not have a “front filter” or the features of “a front cabinet for electrically connecting the front filter and the back cover.” Absent a teaching or suggestion of these features, it is respectfully submitted that Yu cannot render claim 12 or any of its dependent claims obvious. These features are also missing from the Morrison patent.

Dependent claim 15 recites “an upper film on which a plurality of first electrode lines are formed, a lower film on which a plurality of second electrode lines crossing the plurality of first electrode lines are formed, and a plurality of dot spacers formed at a touch area such that the upper-film and the lower film are spaced away from each other.” The Yu publication does not teach or suggest these features, taken alone or in combination with the front cabinet features recited in base claim 12. It is therefore respectfully submitted that claim 15 is allowable.

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New claims 21-25 have been added to the application.

Claim 21 recites a front filter installed on a front surface of a panel. The filter includes a touch screen for generating a coordinate signal with respect to a touch point and “an antireflection coating for preventing an external incident light from being again reflected toward an external.” These features are not taught or suggested by the Yu publication or Morrison patent, whether taken alone or in combination.

Claim 22 recites that the front filter further comprises an optical characteristic film for decreasing brightness of red and green of visible ray incident from the panel and at the same time, increasing brightness of blue. These features, when taken as a whole with the features in base claim 21, are not taught or suggest by the cited references.

Claim 23 recites that the front filter includes “a near infrared ray shielding film for shielding near infrared ray radiated from the panel.” These features, when taken as a whole with the features in base claim 21, are not taught or suggest by the cited references.

Claim 24 recites that the touch screen includes “an upper film on which a plurality of first electrode lines are formed, a lower film on which a plurality of second electrode lines crossing the plurality of first electrode lines are formed, and a plurality of dot spacers formed at a touch area such that the upper film and the lower film are spaced away from each other.” These features, when taken as a whole with the features in base claim 21, are not taught or suggest by the cited references.

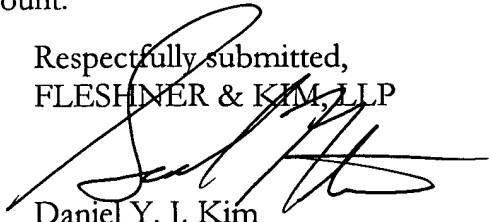
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Claim 25 recites that the touch screen includes “an upper film on which a first transparent conductive layer is formed, a lower film on which a second transparent conductive layer facing the first transparent conductive layer is formed, and a plurality of dot spacers formed at the touch area such that the upper film and the lower film are spaced away from each other.” These features, when taken as a whole with the features in base claim 21, are not taught or suggest by the cited references.

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and timely allowance of the application are respectfully requested.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,

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